

CLAIMS

I claim:

1. A movable guide for an endless, flexible power transmission medium comprising an elongated slide rail for sliding engagement with the transmission medium with the direction of elongation of the slide rail extending along the direction of travel of said transmission medium, a support extending along the slide rail in the direction of elongation thereof, for supporting said slide rail, said support being pivotable adjacent one end thereof, and having a plunger-contacting portion adjacent an opposite end thereof, said elongated slide rail, said rail support, and said plunger-contacting portion being sandwich-molded and comprising a unitary molded core composed of a first, high-strength polymer resin, parts of said unitary molded core forming interior parts of said rail, said rail support and said plunger-contacting portion, and a skin layer composed of a wear-resistant, second polymer resin, said skin layer entirely covering the outer surface of said core.

2. A movable guide according to claim 1, in which said plunger contacting portion includes a side wall for limiting lateral shift of the guide relative to the plunger of a tensioner, said side wall extending along the direction of travel of said transmission medium.

3. A movable guide according to claim 1, in which said plunger-contacting portion has an outer surface with an arc-shaped longitudinal cross-section, whereby the plunger-contacting portion may be maintained in contact

with the axial center of the plunger of a tensioner, as the plunger moves toward and away from a transmission medium in sliding engagement with the slide rail.

4. A movable guide according to claim 2, in which said plunger-contacting portion has outer surface with an arc-shaped longitudinal cross-section, whereby the plunger-contacting portion may be maintained in contact with the axial center of the plunger of a tensioner, as the plunger moves toward and away from a transmission medium in sliding engagement with the slide rail.

5. A movable guide according to claim 1, characterized in that said plunger-contacting portion has a convex shape and has an arc-shaped cross-section transverse to the direction of elongation of the slide rail.

6. A movable guide according to claim 2, characterized in that said plunger-contacting portion has a convex shape and has an arc-shaped cross-section transverse to the direction of elongation of the slide rail.

7. A movable guide according to claim 3, characterized in that said plunger-contacting portion has a convex shape and has an arc-shaped cross-section transverse to the direction of elongation of the slide rail.

8. A movable guide according to claim 4, characterized in that said plunger-contacting portion has a convex shape and has an arc-shaped cross-section transverse to the direction of elongation of the slide rail.

9. A movable guide according to claim 1, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

10. A movable guide according to claim 2, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

11. A movable guide according to claim 3, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

12. A movable guide according to claim 4, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

13. A movable guide according to claim 5, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

14. A movable guide according to claim 6, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

15. A movable guide according to claim 7, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.

16. A movable guide according to claim 8, in which said first polymer resin is a glass fiber-reinforced polyamide 66 resin, and said second polymer resin is a polyamide 66 resin or a polyamide 46 resin.